

INTERFERENCE ANALYSIS FOR PROPOSED NEW LPTV, WILMINGTON, NC (CHANNEL 30)

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: wilm30p, Model: Longley-Rice

Study build station data: LMS TV 2020-01-21

Proposal: WILM30P D30 LD APP WILMINGTON, NC
File number: wilm30p
Facility ID: 182341
Station data: User record
Record ID: 4263
Country: U.S.

Search options:

Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W22CJ	N22-	TX	LIC	JACKSONVILLE, NC	BLTT19990629JD	88.4 km
No	WUND-TV	D29	DT	CP	EDENTON, NC	BLANK0000025090	245.1
No	WNCB-LD	D29	LD	CP	FAYETTEVILLE, NC	BLANK0000051640	105.9
No	WSFX-TV	D29	DT	CP	WILMINGTON, NC	BLANK0000034230	21.4
No	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB	224.9
No	W29EC-D	D29	LD	CP	FLORENCE, SC	BNPDTL20100409ABX	141.6
No	WRJA-TV	D29	DT	LIC	SUMTER, SC	BLANK0000081209	194.2
No	WAGT-CD	D30	DC	LIC	AUGUSTA, GA	BLANK0000063630	347.9
No	W30CR-D	D30	LD	LIC	BISCOE, NC	BLDTT20101029AAJ	181.0
No	WUNC-TV	D30	LD	LIC	CHAPEL HILL, NC	BLEDT20110705ACT	152.9
No	WSOC-TV	D30	LD	LIC	CHARLOTTE, NC	BLCDT20100119ACN	296.1
No	WPDL-LD	D30	LD	CP	JACKSONVILLE, NC	BLANK0000036627	178.6
No	W25AY-D	D30	LD	CP	JEFFERSON, NC	BLANK0000053885	379.2
No	WAXN-TV	D30	LD	CP	KANNAPOLIS, NC	BLANK0000054241	260.3
Yes	WUNU	D30	DT	CP	LUMBERTON, NC	BLANK0000034418	91.6
No	W30DN-D	D30	LD	LIC	MANTEO, NC	BLDTL20150311AAK	290.6
No	W30EK-D	D30	LD	CP	RALEIGH, NC	BLANK0000072012	180.4
No	WHIG-CD	D30	DC	CP	ROCKY MOUNT, NC	BLANK0000028657	180.3
No	W49EE-D	D30	LD	APP	BEAUFORT, SC	BLANK0000093164	273.7
No	W30DH-D	D30	LD	CP	FLORENCE, SC	BNPDTL20100409ABY	141.6
No	WYFF	D30	DT	LIC	GREENVILLE, SC	BLANK0000081030	409.5
No	W30CV-D	D30	DC	LIC	HILTON HEAD ISLAND, SC	BLDTL20110110AAR	336.9
No	WFWG-LD	D30	LD	LIC	RICHMONT, VA	BLANK0000080886	359.2
No	WDBJ	D30	DT	LIC	ROANOKE, VA	BLANK0000094109	363.7
No	WIED-LD	D31	LD	CP	GREENVILLE, NC	BLANK0000052732	113.3
No	WGHP	D31	DT	CP	HIGH POINT, NC	BLANK0000034212	221.4
No	W31ER-D	D31	LD	CP	LUMBERTON, NC	BLANK0000071883	84.0
No	WFEJ-LD	D31	LD	CP	NEW BERN, NC	BLANK0000071949	138.8
Yes	W31DR-D	D31	LD	CP	WILMINGTON, NC	BNPDTL20100422AAO	23.3
No	W26DT-D	D31	LD	CP	MYRTLE BEACH, SC	BLANK0000087112	110.9
No	WKTC	D31	DT	LIC	SUMTER, SC	BLANK0000093003	234.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D30
Mask: Simple
Latitude: 34 19 17.20 N (NAD83)
Longitude: 78 13 41.40 W
Height AMSL: 270.3 m
HAAT: 257.0 m
Peak ERP: 5.50 kW
Antenna: DIE-TUA-C1 (ID 1000546) 115.0 deg
Elev Pattnr: Generic

50.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.029 kW	263.9 m	21.3 km
45.0	0.051	268.1	24.4
90.0	3.30	257.7	46.0
135.0	3.99	253.8	46.7
180.0	0.122	252.6	28.3
225.0	0.029	253.5	20.9

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270.0 0.014 252.6 17.1
315.0 0.014 255.1 17.2

Distance to Canadian border: 895.1 km

Distance to Mexican border: 2017.6 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 12.7 degrees Distance: 552.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 293.1 degrees Distance: 2464.3 km

Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000034418 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUNU	D30	DT	CP	LUMBERTON, NC	BLANK0000034418	
Undesireds:	WILM30P	D30	LD	APP	WILMINGTON, NC	wilm30p	91.6 km
	WSFX-TV	D29	DT	CP	WILMINGTON, NC	BLANK0000034230	107.9
	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB	138.3
	WHIG-CD	D30	DC	CP	ROCKY MOUNT, NC	BLANK0000028657	167.9
	WYFF	D30	DT	LIC	GREENVILLE, SC	BLANK0000081030	326.3
	WDBJ	D30	DT	LIC	ROANOKE, VA	BLANK0000094109	284.6
	WGHP	D31	DT	CP	HIGH POINT, NC	BLANK0000034212	134.0

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	25563.7	1,202,188	25378.3	1,200,904	24422.7	1,166,367	23883.1 1,160,743 2.21 0.48

Undesired			Total IX	Unique IX, before		Unique IX, after	
WILM30P D30 LD APP			578.9	6,602		539.6	5,624
WSFX-TV D29 DT CP			40.3	978		1.0	0
WXLV-TV D29 DT LIC			205.9	6,131		9.0	9
WHIG-CD D30 DC CP			4.0	0		1.0	0
WYFF D30 DT LIC			172.7	2,283		58.0	383
WDBJ D30 DT LIC			703.1	30,395		289.2	10,201
WGHP D31 DT CP			465.3	21,472		118.3	2,414

Interference to BNPDTL20100422AAO CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W31DR-D	D31	LD	CP	WILMINGTON, NC	BNPDTL20100422AAO	
Undesireds:	WILM30P	D30	LD	APP	WILMINGTON, NC	wilm30p	23.3 km

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	3827.0	284,910	3827.0	284,910	3827.0	284,910	3825.0 284,722 0.05 0.07

Undesired			Total IX	Unique IX, before		Unique IX, after	
WILM30P D30 LD APP			2.0	188		2.0	188

